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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/511,277	10/21/2004	Hiromu Ueshima	100341-00054	6411
4372 7	590 06/01/2006		EXAMINER	
ARENT FOX	PLLC		PANOS, JE	FFREY C
1050 CONNEC	CTICUT AVENUE, N.W.			
SUITE 400			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036			3713	
			DATE MAIL ED: 06/01/200	,

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/511,277	UESHIMA, HIROMU			
		Examiner	Art Unit			
		Jeffrey C. Panos	3713			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)⊠	Responsive to communication(s) filed on 10 Ma	arch 2006.				
•	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)🖂	4)⊠ Claim(s) <u>1 and 6-9</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
=	6)⊠ Claim(s) <u>1 and 6-9</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 7, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lipps et al (U.S. Patent No. 5,741,182) in view of Ueshima et al (U.S. Patent No. 6,929,543) in further view of Malone (U.S. Patent No. 5,269,519) and Togami (U.S. Patent No. 6,394,897).

Regarding claim 1, Lipps et al shows a game machine that displays a ball on a monitor screen through execution of a game program in which a CPU player controlled by a computer program plays a match against said player, which is capable of being applied to tennis (Figure 1; column 2, lines 18-28; column 3, lines 6-13). In addition, Lipps et al teaches calculating the predicted return position of said ball from the CPU player, in this case, the pitcher, but can also be applied to tennis (column 3, lines 6-13). Lipps et al lacks and acceleration sensor taught by Ueshima et al (column 3, lines 45-53), however, Lipps et al does teach a transmission means capable of generating the acceleration signal (column 2, lines 51-57), where a transmission circuit is inherent in the means of transmitting. Lipps et al also teaches a swing detection means which is capable of detecting if a racket was swung (column 2, lines 34-44), where a swing

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detection circuit is inherent in the means of detecting a swing. Malone teaches a calculation for calculating an initial speed vector, which is capable of being obtained from the data obtained (column 4, lines 18-24). Togami teaches a judgment of current position of the player to be in strikable range and a ball striking position movement means for moving a ball striking position of said player (column 22, claim 5), where the ball striking position movement means is inherent in the system to be a circuit. It would have been obvious to one of ordinary skill in the art that in video games such as this to employ the positional judgment where the nearest player may move to the position the ball or item is judged to end up. Such a judgment means/circuit would be obvious to implement in the tennis game so that if the other player hits a ball within a certain range that it can be judged whether it can be returned or not. If it cannot be returned, then the player will win that point and the game will have some reality involved where it would simulate the "virtual" impossibility of reaching the point of the ball. In the case the player can reach the ball, the player then is automatically moved to that point as in Togami, and the player may get a chance to swing at the tennis ball to keep the point going. It would have been obvious to one or ordinary skill in the art at the time the invention was made to modify Lipps et al by providing the acceleration sensor means (acceleration circuit is inherent) taught by Ueshima et al, judging whether a player can get to the ball or not and automatic movement to that position if the player cannot get there, and another calculation for speed of the ball after being hit. This would create excitement and some ease in a game where there are too many limitations to virtually

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implement. It takes away from the complexity and allows the player to enjoy themselves more.

Regarding claim 6, Lipps et al shows a game machine that displays a ball on a monitor screen through execution of a game program in which a CPU player controlled by a computer program plays a match against said player, which can also be applied to tennis (Figure 1; column 2, lines 18-28; column 3, lines 6-13). In addition, Lipps et al teaches calculating the predicted return position of said ball from the CPU player, in this case, the pitcher, but can also be applied to tennis (column 3, lines 6-13). Lipps et al lacks and acceleration sensor taught by Ueshima et al (column 3, lines 45-53), however, Lipps et al does teach a transmission means capable of generating the acceleration signal (column 2, lines 51-57), where the transmission means is inherent to be a circuit. Lipps et al also teaches a swing detection means which is capable of detecting if a racket was swung (column 2, lines 34-44), where a swing detection circuit is inherent in the means of detecting a swing. Malone teaches a calculation for calculating an initial speed vector, which is capable of being obtained from the data obtained (column 4, lines 18-24). Togami teaches a judgment of current position of the player to be in strikable range and a ball striking position movement means for moving a ball striking position of said player (column 22, claim 5). It would have been obvious to one of ordinary skill in the art that in video games such as this to employ the positional judgment where the nearest player may move to the position the ball or item is judged to end up. Such a judgment means/circuit would be obvious to implement in the tennis game so that if the other player hits a ball within a certain range that it can be judged

whether it can be returned or not. If it cannot be returned, then the player will win that point and the game will have some reality involved where it would simulate the "virtual" impossibility of reaching the point of the ball. In the case the player can reach the ball, the player then is automatically moved to that point as in Togami, and the player may get a chance to swing at the tennis ball to keep the point going. It would be Duplication of Parts (MPEP 2144.04) to have a second racket for the game to be two-player in that all the stated elements would be duplicated for that second player and racket input. It also would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lipps et al by providing the acceleration sensor means taught by Ueshima et al, judging whether a player can get to the ball or not and automatic movement to that position if the player cannot get there, and another calculation for speed of the ball after being hit. This would create excitement and some ease in a game where there are too many limitations to virtually implement. It takes away from the complexity and allows the player to enjoy themselves more.

Regarding claim 7, Lipps et al teaches all of the claimed invention except for specifically disclosing a tennis racket that includes an operating switch (column 5, lines 64-67) and a position movement means for moving said ball striking position on said monitor screen from forward position to backward position of from backward position to forward position, which is capable of being done by Lipps et al (column 3, lines 19-24). Lipps et al does teach a transmission means for a sensor, but Ueshima et al teaches the acceleration sensor. It would have been obvious to one of ordinary skill in the art at

the time the invention was made to modify Lipps et al by providing the acceleration sensor for a more efficient way of reading the acceleration of the racket.

Regarding claim 8, Lipps et al teaches all of the claimed invention except for specifically disclosing that the a racket input device contained transmission means including an infrared light-emitting element for transmitting said acceleration correlation signal and said operation signal by means of infrared light (column 2, lines 51-57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lipps et al so that a racket specifically contains the infrared transmission means to create less physical protrusions, in turn, lifting the satisfaction of the game.

Regarding claim 9, Lipps et al teaches all of the claimed invention except for said transmission means digital-modulates and transmits said acceleration correlation signal and said operation signal to said game machine; and said game machine digital-demodulates said acceleration correlation signal and said operation signal transmitted by said transmission means. Ueshima et al teaches a game processor in Figure 4 that has the acceleration sensor 46 connected to the A/D converter input, which it is then inherent that the processor will demodulate the digital signal after conversion so that it may read it. It would have been obvious to on of ordinary skill in the art at the time the invention was made to modify Lipps et al by providing the sensor conversion means taught by Ueshima et al so that the game processor will encompass the responsibility of converting and determining the data being sent in a quick manner through use of the A/D converter already built in.

Response to Arguments

Applicant's arguments filed March 10, 2006 have been fully considered but they are not persuasive. The Applicant argued "that none of the cited art of record, nor combination thereof, discloses or suggests at least the combination of a judgment circuit for judging whether a current position of said player is in a ball strikable range by comparing said predicted return position and the current position of said player; a ball striking position movement circuit for automatically moving a ball striking position of said player to be approximated to said predicted return position in response to a negative judgment by said circuit." The Examiner respectfully disagrees and has supported this in the current action above because Applicant has not supported their arguments anymore than by simply saying that that art cited does not teach their invention.

Conclusion

THIS ACTION IS MADE FINAL because the Examiner upheld the previously cited art and previous action due to Applicant's lack of arguments and persuasion.

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey C. Panos whose telephone number is (571) 272-6136. The examiner can normally be reached on M-F 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan Thai can be reached on (571) 272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeffrey C. Panos May 22, 2006

XUAN M. THAI SUPERVISCH: TATELS ELAMINER

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